												
MATERIAL SAFETY DATA SHEET												
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION												
MANUFACTURING LOCATION:		HAZARDOUS MATERIAL INFORMATION SYSTEM:										
Rutland Plastic Technologies, Inc. 10021 Rodney Street Pineville, NC 28134 704/553-0046		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Health:</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: right;">Flammability:</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">Reactivity:</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">Personal Protection:</td> <td style="text-align: center;">B</td> </tr> </table>			Health:	1	Flammability:	0	Reactivity:	0	Personal Protection:	B
Health:	1											
Flammability:	0											
Reactivity:	0											
Personal Protection:	B											
IN CASE OF EMERGENCY CONTACT: 704/553-0046												
PRODUCT NAME:	Rutland PVC Free Waterbase Screen Printing Ink	MSDS NUMBER:	024									
CHEMICAL FAMILY:	Anionic Polymer Based Mixture	DATE REVISED:	7/23/2008									
PRODUCT CODE:	All WB series inks	DATE PRINTED:	7/28/2008									
EXCEPTIONS:	WB0510 (see MSDS # 081) WB0259 (see MSDS # 25) WB0273 (see MSDS # 26)	SUPERSEDES:	10/9/2006									
SAMPLES *:	X02301, X02302, X02303	VERSION:	3									
*These are developmental products and are to be used for experimental purposes only.												
PREPARED BY:	Kimberly C. Leitch (704) 553-0046 ext. 155											
2. HAZARDOUS INGREDIENTS												
HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT	TLV	PEL								
No hazardous ingredients as defined by OSHA 29 CFR 1910.1200												
3. HAZARDS IDENTIFICATION												
EYE CONTACT:	May be irritating to the eyes.											
SKIN CONTACT:	May cause minor skin irritation											
INGESTION:	Not a likely route of exposure. Very low toxicity.											
INHALATION:	Avoid breathing vapors. May cause respiratory irritation.											

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ISO 9001:2000 and ISO 14001:2004

4. FIRST AID MEASURES

EYES:	Flush with water for 15 minutes. If irritation develops, get medical attention.
SKIN:	Wash with soap and water.
INHALATION:	Remove to fresh air for relief. If breathing difficulties arise or continue, get medical attention.
INGESTION:	Rinse mouth and then drink plenty of water.

5. FIRE FIGHTING MEASURES

FLASH POINT (° F):	>200° F		
OSHA FLAMMABILITY CLASSIFICATION:	None		
EXTINGUISHING MEDIA:	Foam, CO ₂ , Dry Chemical, or water mist.		
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self contained breathing apparatus.		
EXPLOSION LIMITS IN AIR - LOWER (%):	Unknown	UPPER (%):	Unknown
AUTO IGNITION TEMP (° F):	Unknown		
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None		

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Dike to contain spill. Keep product from entering drains. Recover free product. Collect remaining product with absorbent materials.
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7. HANDLING AND STORAGE

HANDLING:	Wash thoroughly after handling.
STORAGE:	Keep containers tightly closed. Do not store near heat or flame. Avoid storage temperatures above 95° F.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Use with adequate ventilation.
RESPIRATORY PROTECTION EQUIPMENT:	Not necessary at room temperature with adequate ventilation.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION (CONTINUED)

PROTECTIVE GLOVES: Recommended

EYE AND FACE PROTECTION: Safety glasses recommended.

OTHER PROTECTIVE EQUIPMENT: Usually not required.

VENTILATION: Local exhaust as needed near processing equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range/Point: 212° F

Vapor Pressure: <19 mm Hg

Vapor Density (AIR=1): >1

Freezing Point: 32° F

pH @ 50g/l, 30° C 6 - 9

Physical State: Liquid

Color: All colors

% Volatile by Weight: <63%

VOC (g/l): Unknown at this time

Evaporation Rate (Butyl Acetate=1): <1

Specific Gravity @ 25° C: 1.00-1.20

Weight per gallon: 8.3-10.0

10. STABILITY AND REACTIVITY

STABILITY: Material is stable

HAZARDOUS POLYMERIZATION: Will not occur.

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS: CO, CO₂

INCOMPATIBILITY (MATERIALS TO AVOID): None

CONDITIONS TO AVOID: Storage temperatures above 95° F.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY: This product is not listed as a carcinogen by NTP, IARC, or OSHA.

ACUTE ORAL LD50: Not available

ACUTE INHALATION LC50: Not available

ACUTE DERMAL LD50: Not available

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12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Unknown

CHEMICAL FATE INFORMATION: Unknown

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Dispose of materials in accordance with the applicable Local, State, and Federal regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not regulated
 DOT HAZARD CLASS: None
 UN/NA NUMBER: None
 DOT PACKING GROUP: None
 AIR FREIGHT TRANSPORTATION: Not regulated
 OCEAN TRANSPORTATION: Not regulated

15. REGULATORY INFORMATION

TSCA STATUS: All components of these products are on the US TSCA Inventory.

CALIFORNIA PROPOSITION 65: These products do not contain chemicals known to the state of California to cause cancer or birth defects; however, routine analysis for all listed materials is not conducted.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST: None

SARA (311,312) HAZARD CLASS: None

SARA SECTION 313 TOXIC CHEMICALS: None

AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES: Unknown at this time.

CANADIAN INVENTORY: None

EINECS REGULATIONS: Unknown at this time

JAPAN: Unknown at this time


KOREAN CHEMICAL INVENTORY: Unknown at this time

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16. OTHER INFORMATION**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:**

All recommendations and statements made, if any, are based on Rutland's research and experience. However, since Rutland has no control over the conditions of use or storage of the product sold, Rutland cannot guarantee the results obtained through the use of its products. All products are sold and samples are given without any representation or warranty, expressed or implied, of fitness for any particular purpose or otherwise, and upon condition that the buyer shall determine the suitability of the product for its own purposes. This applies also where protective rights of third parties are involved. It does not release the user from the obligation to test the suitability of the product for the intended use and application.

Rutland Plastic Technologies, Inc. - 10021 Rodney Street - Pineville, NC 28134
ISO 9001:2000 and ISO 14001:2004

 <p>MATERIAL SAFETY DATA SHEET</p>									
1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION									
<p>MANUFACTURING LOCATION: Rutland Plastic Technologies, Inc. 10021 Rodney Street Pineville, NC 28134 704/553-0046</p> <p>IN CASE OF EMERGENCY CONTACT: 704/553-0046</p> <p>PRODUCT NAME: Rutland NPT Screen Printing Plastisol CHEMICAL FAMILY: Polyvinyl Chloride Dispersion, Non-phthalate</p> <p>PRODUCT CODES: C3, EA, EB, EC, EF, EH, EL, EM, EN, ES, M3, SE, VH, and VL SAMPLE CODES*: X0410B, X0440Y, X04D75, X04E06, X04F02, X04G01, X04T01, X04V0A, X04V0B, X05401 *These are developmental products and are to be used for experimental purposes only.</p> <p>EXCEPTIONS: EA0001, EA0005, EA0014, EH0192, EH4227, ES0031, ES0168, ES0221, ES0246, ES0280, ES8396, ES9003, SE8248 See the MSDS for the individual product</p> <p>PREPARED BY: Kimberly C. Leitch (704) 553-0046 ext. 155</p>	<p>HAZARDOUS MATERIAL INFORMATION SYSTEM:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="text-align: right;">Health:</td> <td style="text-align: center;">1</td> </tr> <tr> <td style="text-align: right;">Flammability:</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">Reactivity:</td> <td style="text-align: center;">0</td> </tr> <tr> <td style="text-align: right;">Personal Protection:</td> <td style="text-align: center;">A</td> </tr> </table> <p>MSDS NUMBER: 38 DATE REVISED: 9/13/2010 SUPERSEDES: 3/10/2010 VERSION: 8c</p>	Health:	1	Flammability:	0	Reactivity:	0	Personal Protection:	A
Health:	1								
Flammability:	0								
Reactivity:	0								
Personal Protection:	A								
2. HAZARDS IDENTIFICATION									
EMERGENCY OVERVIEW:	Low hazard for normal industrial use.								
EYE CONTACT:	Low hazard for normal industrial use; however, any material that contacts the eye may cause mechanical irritation.								
SKIN CONTACT:	Low hazard for normal industrial use.								
INGESTION:	Not a likely route of exposure. Very low toxicity.								
INHALATION:	Not a problem at room temperature, but fumes formed at elevated temperatures can be irritating.								

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3. INGREDIENTS AND HAZARDS				
HAZARDOUS INGREDIENT	CAS #	% BY WEIGHT	TLV	PEL
No hazardous ingredients as defined by OSHA 29 CFR 1910.1200				
4. FIRST AID MEASURES				
EYES:	Flush with water for 15 minutes. If irritation develops, get medical attention.			
SKIN:	Wash with soap and water.			
INHALATION:	Remove to fresh air for relief.			
INGESTION:	None necessary for small quantities.			
5. FIRE FIGHTING MEASURES				
FLASH POINT (° F):	>400 (COC)			
OSHA FLAMMABILITY CLASSIFICATION:	None			
EXTINGUISHING MEDIA:	Foam, CO ₂ , Dry Chemical, or water mist.			
SPECIAL FIRE FIGHTING PROCEDURES:	Wear self contained breathing apparatus.			
EXPLOSION LIMITS IN AIR - LOWER (%):	Unknown	UPPER (%):	Unknown	
AUTO IGNITION TEMP (° F):	Unknown			
UNUSUAL FIRE AND EXPLOSION HAZARDS:	None			
6. ACCIDENTAL RELEASE MEASURES				
ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:	Dike to contain spill. Recover free product. Collect remaining product with absorbent materials.			
7. HANDLING AND STORAGE				
HANDLING:	Wash thoroughly after handling.			
STORAGE:	Do not store near heat or flame. Material can gel with long exposure to elevated temperatures (Above 95° F.). Segregate from phthalate containing inks to avoid contamination.			

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:	Use with adequate ventilation.
RESPIRATORY PROTECTION EQUIPMENT:	Not necessary at room temperature.
PROTECTIVE GLOVES:	Usually not required.
EYE AND FACE PROTECTION:	Safety glasses recommended.
OTHER PROTECTIVE EQUIPMENT:	Usually not required.
VENTILATION:	Local exhaust as needed near processing equipment.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Range/Point:	Solidifies before boiling.
Vapor Pressure:	Unknown
Vapor Density (AIR=1):	>1
Freezing Point:	Not applicable
Melting Point:	Not applicable
Physical State:	Thick Liquid
Color:	All colors
% Volatile by Weight:	0.2%-4%
VOC (g/l):	2 - 50 g/l
Evaporation Rate (Butyl Acetate=1):	Unknown
Weight per gallon:	9.7-14

10. STABILITY AND REACTIVITY

STABILITY:	Material is stable
HAZARDOUS POLYMERIZATION:	Will not occur.
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:	CO, CO ₂ , HCl.
INCOMPATIBILITY (MATERIALS TO AVOID):	None
CONDITIONS TO AVOID:	Storage temperatures above 95° F.

11. TOXICOLOGICAL INFORMATION

CARCINOGENICITY:	These products are not listed as carcinogens by NTP, IARC, EPA, or OSHA. These products are not listed as reproductive or developmental toxins by EPA.		
ACUTE ORAL LD50:	Not available	ACUTE INHALATION LC50:	Not available
ACUTE DERMAL LD50:	Not available		

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12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: Unknown

CHEMICAL FATE INFORMATION: Unknown

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Small amounts may be fused in a vented oven and disposed of as a solid. Disposed material is not a listed RCRA Hazardous waste. Dispose of materials in accordance with the applicable Local, State, and Federal regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not regulated
DOT HAZARD CLASS: None
UN/NA NUMBER: None
DOT PACKING GROUP: None
AIR FREIGHT TRANSPORTATION: Not regulated
OCEAN TRANSPORTATION: Not regulated

15. REGULATORY INFORMATION

TSCA STATUS: All components of these products are on the US TSCA Inventory.

CALIFORNIA PROPOSITION 65: These products do not contain chemicals known to the state of California to cause cancer or birth defects; however, routine analysis for all listed materials is not conducted.

SARA 302 EXTREMELY HAZARDOUS SUBSTANCES LIST: None

SARA (311,312) HAZARD CLASS: None

SARA SECTION 313 TOXIC CHEMICALS: EH4218, ES4779, ES4871 and ES7876 contain <15% copper
 EH2251, EH3408, EH4218, ES3101, ES4779, and ES4871 contain <25% Zinc Compound

The products listed below contain:

Barium Compound:	<19%	As Barium:	<4.75%
C36446, EB6446, EH5107, EH5112, EH5118, EH5134, EH5154, EH5166, EH5167, EH5172, EH5173, EH5179, EH5675, EH5724, EH6032, EH6086, EH6087, EH6088, EH6186, EH6188, EH6200, EH6279, EH6286, EH6330, EH6331, EH6332, EH6333, EH6334, EH6335, EH6359, EH6360, EH6361, EH6400, EH6419, EH6485, EH6785, EH6795, EH6797, EH6805, EH6807, EH6994, EH7114, EH7120, EH7439, EH7497, EH7731, EL6279, EL6400, EM6446, M36446, VL6279			

AUSTRALIAN INVENTORY CHEMICAL SUBSTANCES: Unknown at this time.

CANADIAN INVENTORY: None

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15. REGULATORY INFORMATION (CONTINUED)

EINECS REGULATIONS: Unknown at this time

JAPAN: Unknown at this time

KOREAN CHEMICAL INVENTORY: Unknown at this time

16. OTHER INFORMATION**DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES:**

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